

# **RENT A CAR**

## **(MID-TERM PROJECT PHASE - 1 &2)**

**Name: Sai Prathyusha Devarapalli**  
**UCID: sd894**

**Name: Baba Avinash Puppala**  
**UCID: bp479**

## **Business rules requirements of the system:**

The cost of renting a car depends on the car's class. In each class of rental, Rent A Car offers daily, weekly, and monthly rates. Among car models are the make of the car (Tesla, Benz, etc.), the type of car, seating capacity, and colour of the car. A car identification number (CID) uniquely identifies each vehicle. There is an address for the branch where the car is assigned.

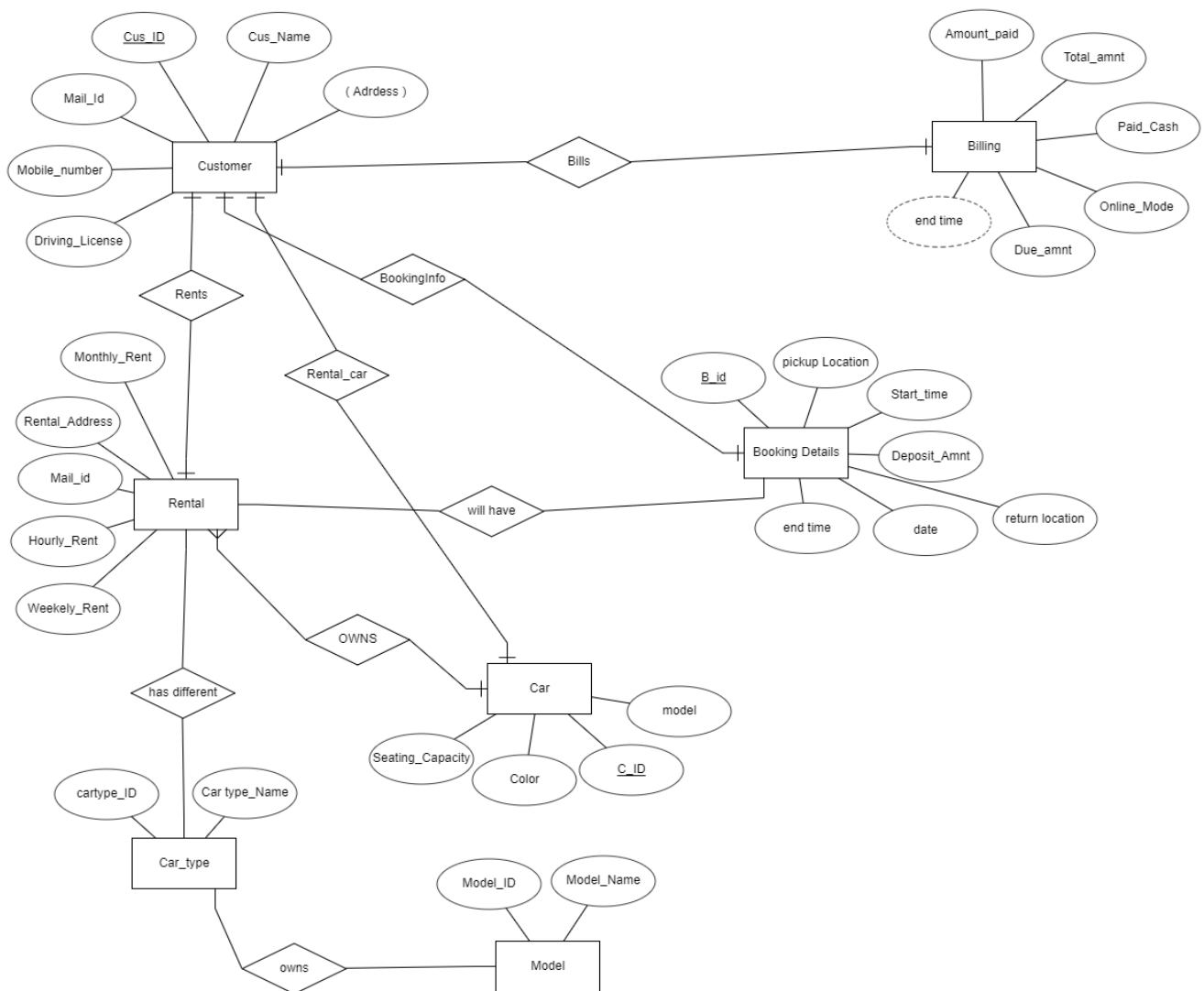
The process of renting a car is as follows.

Prior to picking up the car at the branch location, the customer makes a booking over the phone with the location. A customer's name and address, vehicle class, and the period of rental (days in and days out) are taken by the rental service agent. The customer is informed of the rental rate. In the event that a booking already exists, the service agent finalizes the rental agreement when the customer arrives at the branch location to pick up the car. In addition to the license number of the operator and other information, the service agent discusses with the customer other details needed for the rental agreement process. These details include name, email, and cell phone number and customer have his/her option to choose cartype and model. It is also necessary to deposit a security deposit and determine the customer's billing method online or by cash. Customer's booking information is used to assign a specific car to the rental agreement if they have made a booking. A service agent fills out the booking information first if the customer is a walk-in without a slot reservation. All rentals must be associated with a booking. Please include the start date and time for the rental. Along with the keys to the vehicle, A replica of the rental agreement will be handed over to the customer. The time when the vehicle was picked up by the rental company.

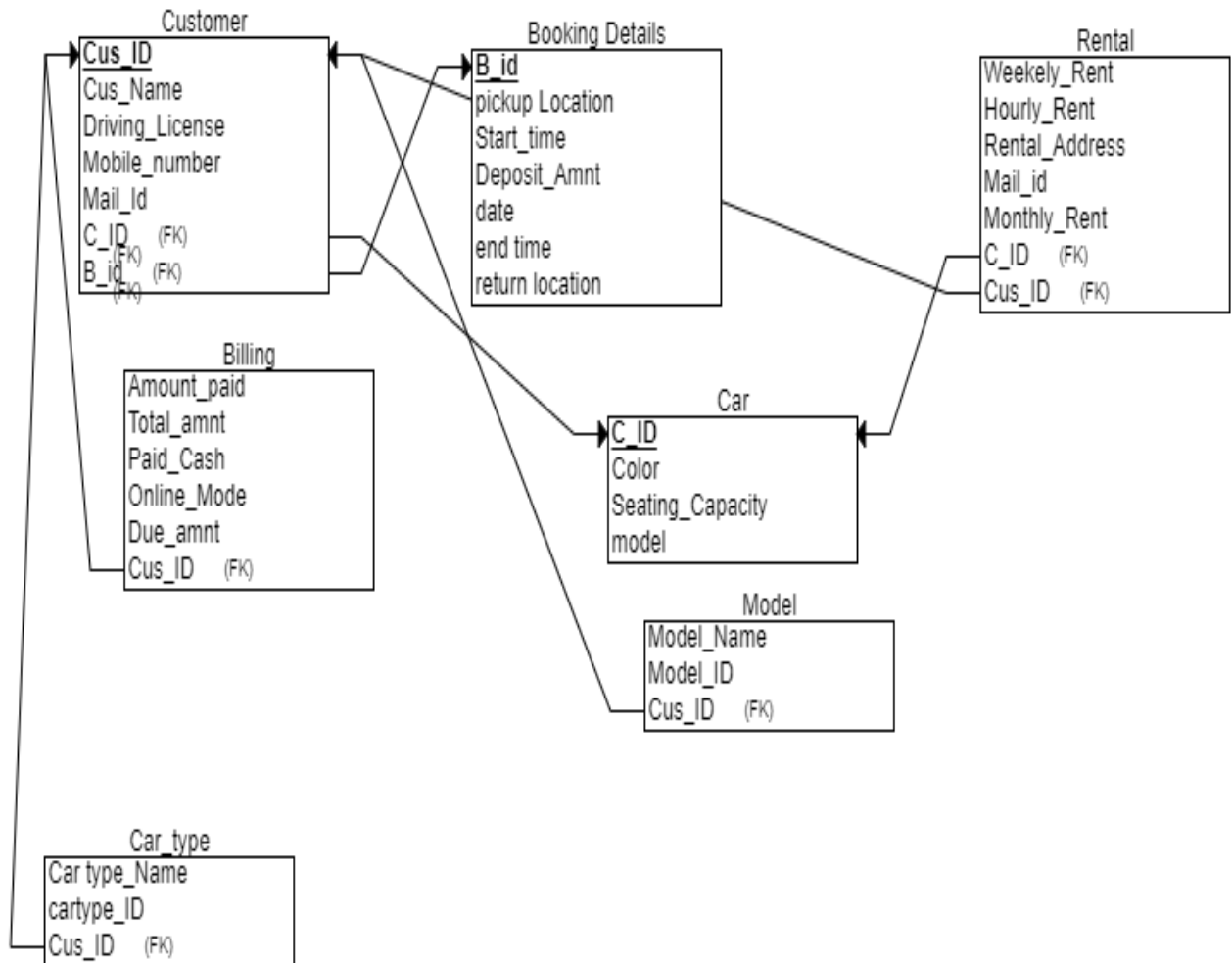
Upon completion of the trip, the car should return to the location. Information that will be filled in when the car is returned is the date and time at which the rental ends. After the rental agreement is completed, the class rental rate is used to calculate the actual rental cost. This cost

is charged to customers online or via cash. No other form of payment is accepted. Penalties will be charged in the event of damage to the car, and the total amount will be recovered from the customer.

## Entity-Relationship Diagram (ER):



## Relational schema:



## CREATION OF TABLES:

### BILLING:

```
CREATE TABLE "SD894"."BILLING"
```

```
(    "AMOUNT_PAID" NUMBER NOT NULL ENABLE,  
    "TOTAL_AMOUNT" NUMBER,  
    "PAID_CASH" NUMBER,  
    "ONLINE_MODE" VARCHAR2(20 BYTE),  
    "DUE_AMOUNT" NUMBER,  
    "CUST_ID" NUMBER,  
    CONSTRAINT "BILLING_PK" PRIMARY KEY ("AMOUNT_PAID"));
```

|            |            |           |            |            |         |
|------------|------------|-----------|------------|------------|---------|
| AMOUNT_... | TOTAL_A... | PAID_CASH | ONLINE_... | DUE_AMO... | CUST_ID |
|------------|------------|-----------|------------|------------|---------|

### BOOKINGDETAILS:

```
CREATE TABLE "SD894"."BOOKINGDETAILS"
```


```
(    "PICKUP" VARCHAR2(30 BYTE) NOT NULL ENABLE,  
    "DROP_TIME" NUMBER(20,0) NOT NULL ENABLE,  
    "START_TIME" VARCHAR2(30 BYTE) NOT NULL ENABLE,  
    "DEPOSIT_AMNT" NUMBER(30,0) NOT NULL ENABLE,  
    "DATE_" NUMBER(20,0) NOT NULL ENABLE,  
    "END_TIME" NUMBER(20,0) NOT NULL ENABLE,  
    CONSTRAINT "BOOKINGDETAILS_PK" PRIMARY KEY ("PICKUP"));
```

|        |           |             |             |       |          |
|--------|-----------|-------------|-------------|-------|----------|
| PICKUP | DROP_TIME | START_TI... | DEPOSIT_... | DATE_ | END_TIME |
|--------|-----------|-------------|-------------|-------|----------|

**CAR:**

```
CREATE TABLE "SD894"."CAR"
```




```
(  "C_ID" NUMBER(30,0) NOT NULL ENABLE,  
   "COLOR" VARCHAR2(20 BYTE) NOT NULL ENABLE,  
   "SEATING_CAPACITY" NUMBER(20,0) NOT NULL ENABLE,  
   "MODEL" VARCHAR2(20 BYTE) NOT NULL ENABLE,  
   CONSTRAINT "CAR_PK" PRIMARY KEY ("C_ID"));
```

|  |   |   |   |
|--|---|---|---|
|  C_ID |  COLOR |  SEATING_... |  MODEL |
|--|---|---|---|

**CARTYPE:**

```
CREATE TABLE "SD894"."CARTYPE"
```

```
(  "CARTYPE_NAME" VARCHAR2(30 BYTE) NOT NULL ENABLE,  
   "CARTYPE_ID" NUMBER(30,0) NOT NULL ENABLE,  
   "CUS_ID" NUMBER(30,0) NOT NULL ENABLE,  
   CONSTRAINT "CARTYPE_PK" PRIMARY KEY ("CARTYPE_NAME"));
```

|  |  |  |
|--|--|--|
|  CARTYPE... |  CARTYPE... |  CUS_ID |
|--|--|--|

**CUSTOMER:**

```
CREATE TABLE "SD894"."CUSTOMER"
```

```
(  "CUS_NAME" VARCHAR2(30 BYTE) NOT NULL ENABLE,  
   "DRIVING_LICENSE" VARCHAR2(20 BYTE) NOT NULL ENABLE,  
   "Mobile_number" NUMBER NOT NULL ENABLE,  
   "Mail_id" VARCHAR2(20 BYTE) NOT NULL ENABLE,
```

```
"C_ID" NUMBER NOT NULL ENABLE,

"B_ID" NUMBER NOT NULL ENABLE,

CONSTRAINT "CUSTOMER_PK" PRIMARY KEY ("CUS_NAME"));
```

|            |               |                |           |        |        |
|------------|---------------|----------------|-----------|--------|--------|
| ⚡ CUS_NAME | ⚡ DRIVING_... | ⚡ Mobile_nu... | ⚡ Mail_id | ⚡ C_ID | ⚡ B_ID |
|------------|---------------|----------------|-----------|--------|--------|

#### MODEL:

```
CREATE TABLE "SD894"."MODEL"
```

```
(  "MODEL_NAME" VARCHAR2(20 BYTE) NOT NULL ENABLE,

    "Model_ID" VARCHAR2(20 BYTE) NOT NULL ENABLE,

    "CUS_ID" VARCHAR2(20 BYTE) NOT NULL ENABLE,

    CONSTRAINT "MODEL_PK" PRIMARY KEY ("MODEL_NAME"));
```

|              |            |          |
|--------------|------------|----------|
| ⚡ MODEL_N... | ⚡ Model_ID | ⚡ CUS_ID |
|--------------|------------|----------|

#### RENTAL:

```
CREATE TABLE "SD894"."RENTAL"
```

```
(  "WEEKLY_RENT" NUMBER(30,0) NOT NULL ENABLE,

    "HOURLY_RENT" NUMBER(30,0) NOT NULL ENABLE,

    "RENTAL_ADDRESS" VARCHAR2(20 BYTE) NOT NULL ENABLE,

    "Mail_ID" VARCHAR2(20 BYTE) NOT NULL ENABLE,

    "Monthly_Rent" NUMBER(30,0) NOT NULL ENABLE,

    "CUS_ID" NUMBER(30,0) NOT NULL ENABLE,

    CONSTRAINT "RENTAL_PK" PRIMARY KEY ("WEEKLY_RENT"));
```

|             |              |              |           |               |          |
|-------------|--------------|--------------|-----------|---------------|----------|
| ⚡ WEEKLY... | ⚡ HOURLY_... | ⚡ RENTAL_... | ⚡ Mail_ID | ⚡ Monthly_... | ⚡ CUS_ID |
|-------------|--------------|--------------|-----------|---------------|----------|

## INSERTING VALUES INTO TABLES:

### BILLING:

```
INSERT INTO BILLING VALUES('300$', '780$', '700$', 'Y', '200$', 201 );
```

```
INSERT INTO BILLING VALUES('200$', '980$', '690$', 'Y', '290$', 202 );
```

```
INSERT INTO BILLING VALUES('400$', '680$', '800$', 'Y', '280$', 203 );
```

```
INSERT INTO BILLING VALUES('500$', '380$', '500$', 'Y', '270$', 204 );
```

```
INSERT INTO BILLING VALUES('100$', '580$', '850$', 'Y', '260$', 205 );
```

```
SELECT * FROM BILLING;
```

|   | AMOUNT_PAID | TOTAL_AMOUNT | PAID_CASH | ONLINE_MODE | DUE_AMOUNT | CUST_ID |
|---|-------------|--------------|-----------|-------------|------------|---------|
| 1 | 300\$       | 780\$        | 700\$     | Y           | 200\$      | 201     |
| 2 | 200\$       | 980\$        | 690\$     | Y           | 290\$      | 202     |
| 3 | 400\$       | 680\$        | 800\$     | Y           | 280\$      | 203     |
| 4 | 500\$       | 380\$        | 500\$     | Y           | 270\$      | 204     |
| 5 | 100\$       | 580\$        | 850\$     | Y           | 260\$      | 205     |

### BOOKINGDETAILS:

```
INSERT INTO BOOKINGDETAILS
```

```
VALUES('10.00AM', '11.00PM', '1.00AM', '100$', '2NDJULY2022', '10.00PM', 'BROADWAY', 'KEARNY' );
```

```
INSERT INTO BOOKINGDETAILS
```

```
VALUES('09.00AM', '11.00PM', '2.00AM', '200$', '3RDAUGUST2022', '09.00PM', 'JOURNAL  
SQUARE', 'HARRISON' );
```

```
INSERT INTO BOOKINGDETAILS
```

```
VALUES('08.00AM', '11.00PM', '3.00AM', '300$', '4RDAUGUST2022', '08.00PM', '33RD STREET', 'HOBOKEN'  
);
```

```
INSERT INTO BOOKINGDETAILS
```

```
VALUES('07.00AM', '11.00PM', '4.00AM', '700$', '5RDAUGUST2022', '07.00PM', 'GROVE STREET', 'NEWARK'  
);
```

INSERT INTO BOOKINGDETAILS

VALUES('06.00AM','11.00PM','9.00AM','600\$','6RDAUGUST2022','06.00PM','BROOKLYN','BRIDGE WATER');

SELECT \* FROM BOOKINGDETAILS;

|   | PICKUP   | DROP_TIME | START_TIME | DEPOSIT_AMNT | DATE_         | END_TIME | PICKUP_LOC     | RETURN_LOC   |
|---|----------|-----------|------------|--------------|---------------|----------|----------------|--------------|
| 1 | 10.00AM  | 11.00PM   | 1.00AM     | 100\$        | 2NDJULY2022   | 10.00PM  | BROADWAY       | KEARNY       |
| 2 | 08.00AM  | 11.00PM   | 3.00AM     | 300\$        | 4RDAUGUST2022 | 08.00PM  | 33RD STREET    | HOBOKEN      |
| 3 | 03.00 AM | 11.00PM   | 9.00AM     | 600\$        | 6RDAUGUST2022 | 06.00PM  | BROOKLYN       | BRIDGE WATER |
| 4 | 09.00AM  | 11.00PM   | 2.00AM     | 200\$        | 3RDAUGUST2022 | 09.00PM  | JOURNAL SQUARE | HARRISON     |
| 5 | 07.00AM  | 11.00PM   | 4.00AM     | 700\$        | 5RDAUGUST2022 | 07.00PM  | GROVE STREET   | NEWARK       |
| 6 | 06.00AM  | 11.00PM   | 9.00AM     | 600\$        | 6RDAUGUST2022 | 06.00PM  | BROOKLYN       | BRIDGE WATER |

**CAR:**

INSERT INTO CAR VALUES(12,'BLACK',4,'AUDI' );

INSERT INTO CAR VALUES(13,'GREEN',5,'TESLA' );

INSERT INTO CAR VALUES(14,'WHITE',6,'KIA' );

INSERT INTO CAR VALUES(15,'YELLOW',7,'BENZ' );

INSERT INTO CAR VALUES(16,'BLUE',4,'BUGATI' );

SELECT \* FROM CAR;

| C_ID | COLOR     | SEATING_CAPACITY | MODEL  |
|------|-----------|------------------|--------|
| 1    | 13 GREEN  | 5                | TESLA  |
| 2    | 14 WHITE  | 6                | KIA    |
| 3    | 15 YELLOW | 7                | BENZ   |
| 4    | 16 BLUE   | 4                | BUGATI |
| 5    | 12 BLACK  | 4                | AUDI   |



### CARTYPE:

```
INSERT INTO CARTYPE VALUES('PETROL',1,112 );
```

```
INSERT INTO CARTPE VALUES('GAS',2,113 );
```

```
INSERT INTO CARTYPE VALUES('DIESEL',3,114 );
```

```
INSERT INTO CARTYPE VALUES('ELECTRIC',7,115 );
```

```
SELECT * FROM CARTYPE;
```

|   | CARTYPE_NAME | CARTYPE_ID | CUS_ID |
|---|--------------|------------|--------|
| 1 | PETROL       | 1          | 112    |
| 2 | GAS          | 2          | 113    |
| 3 | DIESEL       | 3          | 114    |
| 4 | ELECTRIC     | 7          | 115    |

### CUSTOMER:

```
INSERT INTO CUSTOMER VALUES('SUSHMA',145,1127890,'xuu@gmail.com',09,07 );
```

```
INSERT INTO CUSTOMER VALUES('PRIYANKA',142,1136790,'yuy@gmail.com',08,06 );
```

```
INSERT INTO CUSTOMER VALUES('SATHVIKA',143,1145533,'zzu@gmail.com',05,04 );
```

```
INSERT INTO CUSTOMER VALUES('PRATHYU',147,1152277,'yyy@gmail.com',10,11 );
```

```
INSERT INTO CUSTOMER VALUES('USHA',148,1168899,'ppp@gmail.com',12,13 );
```

```
SELECT * FROM CUSTOMER;
```

| SQL   All Rows Fetched: 5 in 0.008 seconds |          |                 |               |               |      |      |
|--|----------|-----------------|---------------|---------------|------|------|
|  | CUS_NAME | DRIVING_LICENSE | Mobile_number | Mail_id       | C_ID | B_ID |
| 1  | PRIYANKA | 142             | 1136790       | yuy@gmail.com | 8    | 6    |
| 2  | SATHVIKA | 143             | 1145533       | zzu@gmail.com | 5    | 4    |
| 3  | PRATHYU  | 147             | 1152277       | yyy@gmail.com | 10   | 11   |
| 4  | USHA     | 148             | 1168899       | ppp@gmail.com | 12   | 13   |
| 5  | SUSHMA   | 145             | 1127890       | xuu@gmail.com | 9    | 7    |

## MODEL:

```
INSERT INTO MODEL VALUES('TESLA X',930,37 );
```

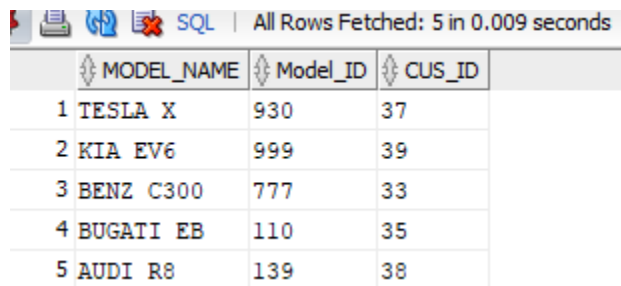
```
INSERT INTO MODEL VALUES('KIA EV6',999,39 );
```

```
INSERT INTO MODEL VALUES('BENZ C300',777,33 );
```

```
INSERT INTO MODEL VALUES('BUGATI EB',110,35 );
```

```
INSERT INTO MODEL VALUES('AUDI R8',139,38 );
```

```
SELECT * FROM MODEL;
```



SQL | All Rows Fetched: 5 in 0.009 seconds

|   | MODEL_NAME | Model_ID | CUS_ID |
|---|------------|----------|--------|
| 1 | TESLA X    | 930      | 37     |
| 2 | KIA EV6    | 999      | 39     |
| 3 | BENZ C300  | 777      | 33     |
| 4 | BUGATI EB  | 110      | 35     |
| 5 | AUDI R8    | 139      | 38     |

## RENTAL:

```
INSERT INTO RENTAL VALUES('100$','150$','21AVENUE','jugg@gmail.com','550$',25 );
```

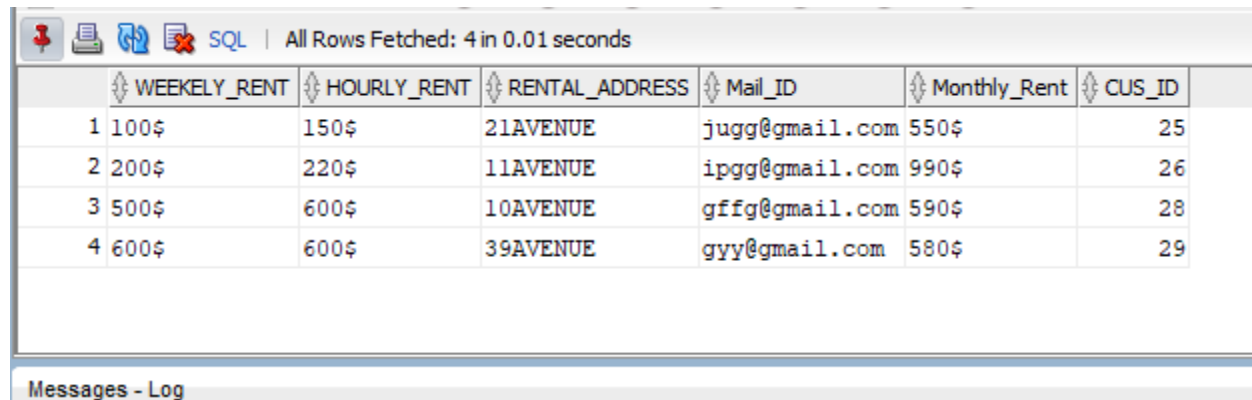
```
INSERT INTO RENTAL VALUES('200$','220$','11AVENUE','ipgg@gmail.com','990$',26);
```

```
INSERT INTO RENTAL VALUES('300$','500$','77AVENUE','guug@gmail.com','980$',27 );
```

```
INSERT INTO RENTAL VALUES('500$','600$','10AVENUE','gffg@gmail.com','590$',28 );
```

```
INSERT INTO RENTAL VALUES('600$','600$','39AVENUE','gyy@gmail.com','580$',29 );
```

```
SELECT * FROM RENTAL;
```



SQL | All Rows Fetched: 4 in 0.01 seconds

|   | WEEKLY_RENT | HOURLY_RENT | RENTAL_ADDRESS | Mail_ID        | Monthly_Rent | CUS_ID |
|---|-------------|-------------|----------------|----------------|--------------|--------|
| 1 | 100\$       | 150\$       | 21AVENUE       | jugg@gmail.com | 550\$        | 25     |
| 2 | 200\$       | 220\$       | 11AVENUE       | ipgg@gmail.com | 990\$        | 26     |
| 3 | 500\$       | 600\$       | 10AVENUE       | gffg@gmail.com | 590\$        | 28     |
| 4 | 600\$       | 600\$       | 39AVENUE       | gyy@gmail.com  | 580\$        | 29     |

Messages - Log

### DELETION OF TABLE COLUMN:

#### BILLING:

DELETE BILLING WHERE AMOUNT\_PAID='300\$';

SELECT \* FROM BILLING;

|   | AMOUNT_PAID | TOTAL_AMOUNT | PAID_CASH | ONLINE_MODE | DUE_AMOUNT | CUST_ID |
|---|-------------|--------------|-----------|-------------|------------|---------|
| 1 | 200\$       | 980\$        | 690\$     | Y           | 290\$      | 202     |
| 2 | 400\$       | 680\$        | 800\$     | Y           | 280\$      | 203     |
| 3 | 500\$       | 380\$        | 500\$     | Y           | 270\$      | 204     |
| 4 | 100\$       | 580\$        | 850\$     | Y           | 260\$      | 205     |

#### BOOKINGDETAILS:

DELETE BOOKINGDETAILS WHERE PICKUP = '07.00AM';

SELECT \* FROM BOOKINGDETAILS;

|   | PICKUP   | DROP_TIME | START_TIME | DEPOSIT_AMNT | DATE_         | END_TIME | PICKUP_LOC     | RETURN_LOC   |
|---|----------|-----------|------------|--------------|---------------|----------|----------------|--------------|
| 1 | 10.00AM  | 11.00PM   | 1.00AM     | 100\$        | 2NDJULY2022   | 10.00PM  | BROADWAY       | KEARNY       |
| 2 | 09.00AM  | 11.00PM   | 2.00AM     | 200\$        | 3RDAUGUST2022 | 09.00PM  | JOURNAL SQUARE | HARRISON     |
| 3 | 08.00AM  | 11.00PM   | 3.00AM     | 300\$        | 4RDAUGUST2022 | 08.00PM  | 33RD STREET    | HOBOKEN      |
| 4 | 03.00 AM | 11.00PM   | 9.00AM     | 600\$        | 6RDAUGUST2022 | 06.00PM  | BROOKLYN       | BRIDGE WATER |

#### CAR:

DELETE CAR WHERE COLOR='BLACK';

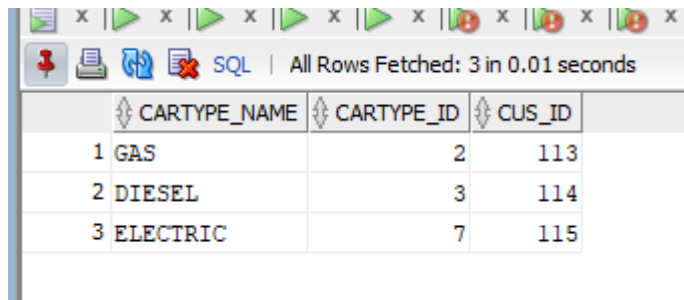
SELECT \* FROM CAR;

|   | C_ID | COLOR  | SEATING_CAPACITY | MODEL    |
|---|------|--------|------------------|----------|
| 1 | 19   | GREEN  |                  | 5 TESLA  |
| 2 | 14   | WHITE  |                  | 6 KIA    |
| 3 | 15   | YELLOW |                  | 7 BENZ   |
| 4 | 16   | BLUE   |                  | 4 BUGATI |

#### CARTYPE:

DELETE CARTYPE WHERE CARTYPE\_NAME='PETROL';

SELECT \* FROM CARTYPE;



SQL | All Rows Fetched: 3 in 0.01 seconds

|   | CARTYPE_NAME | CARTYPE_ID | CUS_ID |
|---|--------------|------------|--------|
| 1 | GAS          | 2          | 113    |
| 2 | DIESEL       | 3          | 114    |
| 3 | ELECTRIC     | 7          | 115    |

### CUSTOMER:

DELETE CUSTOMER WHERE CUS\_NAME='PRATHYU';

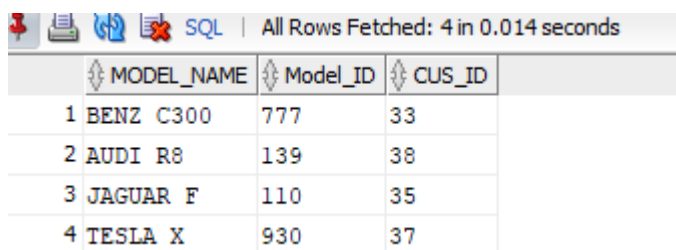
SELECT \* FROM CUSTOMER;

|   | CUS_NAME | DRIVING_LICENSE | Mobile_number | Mail_id       | C_ID | B_ID |
|---|----------|-----------------|---------------|---------------|------|------|
| 1 | USHA     | 148             | 1168899       | ppp@gmail.com | 12   | 13   |
| 2 | SUSHMA   | 145             | 1127890       | xuu@gmail.com | 9    | 7    |
| 3 | Sunitha  | 142             | 1136790       | yuy@gmail.com | 8    | 6    |
| 4 | SATHVIKA | 143             | 1145533       | zzu@gmail.com | 5    | 4    |

### MODEL:

DELETE MODEL WHERE MODEL\_NAME='KIA EV6';

SELECT \* FROM MODEL;



SQL | All Rows Fetched: 4 in 0.014 seconds

|   | MODEL_NAME | Model_ID | CUS_ID |
|---|------------|----------|--------|
| 1 | BENZ C300  | 777      | 33     |
| 2 | AUDI R8    | 139      | 38     |
| 3 | JAGUAR F   | 110      | 35     |
| 4 | TESLA X    | 930      | 37     |

### RENTAL:

DELETE RENTAL WHERE WEEKLY\_RENT='600\$';

SELECT \* FROM RENTAL;

| SQL   All Rows Fetched: 3 in 0.009 seconds |             |             |                |                |              |        |
|--|-------------|-------------|----------------|----------------|--------------|--------|
|  | WEEKLY_RENT | HOURLY_RENT | RENTAL_ADDRESS | Mail_ID        | Monthly_Rent | CUS_ID |
| 1  | 100\$       | 150\$       | 21AVENUE       | jugg@gmail.com | 550\$        | 25     |
| 2  | 200\$       | 220\$       | 11AVENUE       | ipgg@gmail.com | 990\$        | 26     |
| 3  | 500\$       | 600\$       | 10AVENUE       | gffg@gmail.com | 590\$        | 28     |

## UPDATION OF TABLES:

### BILLING :

UPDATE BILLING

SET TOTAL\_AMOUNT = '1000\$'

WHERE AMOUNT\_PAID = '200\$';

SELECT \* FROM BILLING;

| SQL   All Rows Fetched: 5 in 0.007 seconds |             |              |           |             |            |         |
|--|-------------|--------------|-----------|-------------|------------|---------|
|  | AMOUNT_PAID | TOTAL_AMOUNT | PAID_CASH | ONLINE_MODE | DUE_AMOUNT | CUST_ID |
| 1  | 200\$       | 1000\$       | 690\$     | Y           | 290\$      | 202     |
| 2  | 400\$       | 680\$        | 800\$     | Y           | 280\$      | 203     |
| 3  | 500\$       | 380\$        | 500\$     | Y           | 270\$      | 204     |
| 4  | 100\$       | 580\$        | 850\$     | Y           | 260\$      | 205     |
| 5  | 300\$       | 780\$        | 700\$     | Y           | 200\$      | 201     |


### BOOKINGDETAILS :

UPDATE BOOKINGDETAILS

SET PICKUP = '03.00 AM'

WHERE PICKUP\_LOC='BROOKLYN';

SELECT \* FROM BOOKINGDETAILS;


SQL | All Rows Fetched: 4 in 0.032 seconds

|   | PICKUP   | DROP_TIME | START_TIME | DEPOSIT_AMNT | DATE_         | END_TIME | PICKUP_LOC     | RETURN_LOC   |
|---|----------|-----------|------------|--------------|---------------|----------|----------------|--------------|
| 1 | 10.00AM  | 11.00PM   | 1.00AM     | 100\$        | 2NDJULY2022   | 10.00PM  | BROADWAY       | KEARNY       |
| 2 | 09.00AM  | 11.00PM   | 2.00AM     | 200\$        | 3RDAUGUST2022 | 09.00PM  | JOURNAL SQUARE | HARRISON     |
| 3 | 08.00AM  | 11.00PM   | 3.00AM     | 300\$        | 4RDAUGUST2022 | 08.00PM  | 33RD STREET    | HOBOKEN      |
| 4 | 03.00 AM | 11.00PM   | 9.00AM     | 600\$        | 6RDAUGUST2022 | 06.00PM  | BROOKLYN       | BRIDGE WATER |

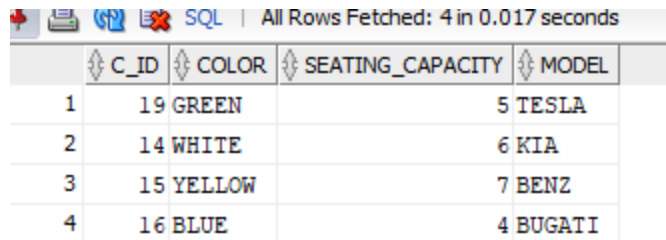
**CAR:**

UPDATE CAR

SET C\_ID = 19

WHERE COLOR = 'GREEN';

SELECT \* FROM CAR;



A screenshot of a database query result window. The title bar shows a red pin icon, a printer icon, a magnifying glass icon, a red X icon, and the text 'SQL | All Rows Fetched: 4 in 0.017 seconds'. The table has four columns: C\_ID, COLOR, SEATING\_CAPACITY, and MODEL. The data is as follows:

|   | C_ID | COLOR  | SEATING_CAPACITY | MODEL    |
|---|------|--------|------------------|----------|
| 1 | 19   | GREEN  |                  | 5 TESLA  |
| 2 | 14   | WHITE  |                  | 6 KIA    |
| 3 | 15   | YELLOW |                  | 7 BENZ   |
| 4 | 16   | BLUE   |                  | 4 BUGATI |

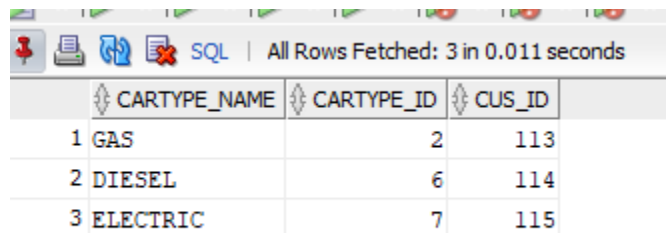
**CARTYPE:**

UPDATE CARTYPE

SET CARTYPE\_ID= 6

WHERE CARTYPE\_NAME = 'DIESEL';

SELECT \* FROM CARTYPE;



A screenshot of a database query result window. The title bar shows a red pin icon, a printer icon, a magnifying glass icon, a red X icon, and the text 'SQL | All Rows Fetched: 3 in 0.011 seconds'. The table has three columns: CARTYPE\_NAME, CARTYPE\_ID, and CUS\_ID. The data is as follows:

|   | CARTYPE_NAME | CARTYPE_ID | CUS_ID |
|---|--------------|------------|--------|
| 1 | GAS          | 2          | 113    |
| 2 | DIESEL       | 6          | 114    |
| 3 | ELECTRIC     | 7          | 115    |

**CUSTOMER:**

UPDATE CUSTOMER

SET CUS\_NAME= Sunitha

WHERE C\_ID = 8;

SELECT \* FROM CUSTOMER;

|   | ⇅ CUS_NAME | ⇅ DRIVING_LICENSE | ⇅ Mobile_number | ⇅ Mail_id     | ⇅ C_ID | ⇅ B_ID |
|---|------------|-------------------|-----------------|---------------|--------|--------|
| 1 | USHA       | 148               | 1168899         | ppp@gmail.com | 12     | 13     |
| 2 | SUSHMA     | 145               | 1127890         | xuu@gmail.com | 9      | 7      |
| 3 | Sunitha    | 142               | 1136790         | yuy@gmail.com | 8      | 6      |
| 4 | SATHVIKA   | 143               | 1145533         | zzu@gmail.com | 5      | 4      |

### MODEL:

UPDATE MODEL

SET MODEL\_NAME = 'JAGUAR F'

WHERE CUS\_ID = 35;

SELECT \* FROM MODEL;

| SQL   All Rows Fetched: 4 in 0.015 seconds |              |            |          |
|--|--------------|------------|----------|
| ⇅  | ⇅ MODEL_NAME | ⇅ Model_ID | ⇅ CUS_ID |
| 1  | BENZ C300    | 777        | 33       |
| 2  | AUDI R8      | 139        | 38       |
| 3  | JAGUAR F     | 110        | 35       |
| 4  | TESLA X      | 930        | 37       |

### RENTAL:

UPDATE RENTAL

SET WEEKLY\_RENT= 670\$

WHERE RENTAL\_ADDRESS = '10AVENUE';

SELECT \* FROM RENTAL;

| SQL   All Rows Fetched: 4 in 0.014 seconds |               |               |                  |                 |                |          |
|--|---------------|---------------|------------------|-----------------|----------------|----------|
| ⇅  | ⇅ WEEKLY_RENT | ⇅ HOURLY_RENT | ⇅ RENTAL_ADDRESS | ⇅ Mail_ID       | ⇅ Monthly_Rent | ⇅ CUS_ID |
| 1  | 100\$         | 150\$         | 21AVENUE         | juggg@gmail.com | 550\$          | 25       |
| 2  | 200\$         | 220\$         | 11AVENUE         | ipgg@gmail.com  | 990\$          | 26       |
| 3  | 670\$         | 600\$         | 10AVENUE         | gffg@gmail.com  | 590\$          | 28       |
| 4  | 600\$         | 600\$         | 39AVENUE         | gyy@gmail.com   | 580\$          | 29       |

### GROUP BY:

```
SELECT DROP_TIME,COUNT(DROP_TIME) FROM BOOKINGDETAILS GROUP BY DROP_TIME;
```

```
SELECT * FROM BOOKINGDETAILS;
```

SQL | All Rows Fetched: 4 in 0.009 seconds

|   | PICKUP   | DROP_TIME | START_TIME | DEPOSIT_AMNT | DATE_         | END_TIME | PICKUP_LOC     | RETURN_LOC   |
|---|----------|-----------|------------|--------------|---------------|----------|----------------|--------------|
| 1 | 10.00AM  | 11.00PM   | 1.00AM     | 100\$        | 2NDJULY2022   | 10.00PM  | BROADWAY       | KEARNY       |
| 2 | 09.00AM  | 11.00PM   | 2.00AM     | 200\$        | 3RDAUGUST2022 | 09.00PM  | JOURNAL SQUARE | HARRISON     |
| 3 | 08.00AM  | 11.00PM   | 3.00AM     | 300\$        | 4RDAUGUST2022 | 08.00PM  | 33RD STREET    | HOBOKEN      |
| 4 | 03.00 AM | 11.00PM   | 9.00AM     | 600\$        | 6RDAUGUST2022 | 06.00PM  | BROOKLYN       | BRIDGE WATER |

### GROUP BY HAVING:

```
SELECT DROP_TIME,COUNT(DROP_TIME)AS COUNT FROM BOOKINGDETAILS GROUP BY DROP_TIME  
HAVING COUNT(DROP_TIME)>11.00PM;
```

```
SELECT * FROM BOOKINGDETAILS
```

SQL | All Rows Fetched: 4 in 0.011 seconds

|   | PICKUP   | DROP_TIME | START_TIME | DEPOSIT_AMNT | DATE_         | END_TIME | PICKUP_LOC     | RETURN_LOC   |
|---|----------|-----------|------------|--------------|---------------|----------|----------------|--------------|
| 1 | 10.00AM  | 11.00PM   | 1.00AM     | 100\$        | 2NDJULY2022   | 10.00PM  | BROADWAY       | KEARNY       |
| 2 | 09.00AM  | 11.00PM   | 2.00AM     | 200\$        | 3RDAUGUST2022 | 09.00PM  | JOURNAL SQUARE | HARRISON     |
| 3 | 08.00AM  | 11.00PM   | 3.00AM     | 300\$        | 4RDAUGUST2022 | 08.00PM  | 33RD STREET    | HOBOKEN      |
| 4 | 03.00 AM | 11.00PM   | 9.00AM     | 600\$        | 6RDAUGUST2022 | 06.00PM  | BROOKLYN       | BRIDGE WATER |

### NESTED QUERRIES IN:

```
WHERE CUST_ID IN (SELECT CUST_ID FROM CARTYPE WHERE CUST_ID >0);
```

```
SELECT * FROM CARTYPE;
```

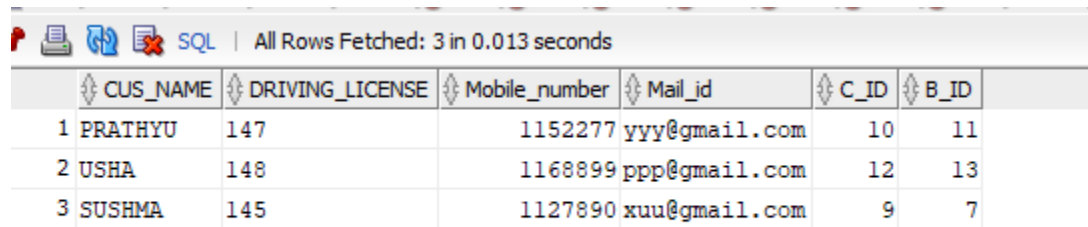
SQL | All Rows Fetched: 4 in 0.011 seconds

|   | CARTYPE_NAME | CARTYPE_ID | CUS_ID |
|---|--------------|------------|--------|
| 1 | PETROL       | 1          | 112    |
| 2 | GAS          | 2          | 113    |
| 3 | DIESEL       | 3          | 114    |
| 4 | ELECTRIC     | 7          | 115    |



### NESTED QUERRIES ALL:

SELECT \* FROM CUSTOMER WHERE C\_ID > ALL (SELECT C\_ID FROM CUSTOMER WHERE C\_ID <9);



The screenshot shows a database client window with a toolbar at the top containing icons for running a query, saving, refreshing, and a SQL editor icon. The text 'SQL | All Rows Fetched: 3 in 0.013 seconds' is displayed. Below the toolbar is a table with 7 columns: CUS\_NAME, DRIVING\_LICENSE, Mobile\_number, Mail\_id, C\_ID, and B\_ID. The table contains 3 rows of data.

|   | CUS_NAME | DRIVING_LICENSE | Mobile_number | Mail_id       | C_ID | B_ID |
|---|----------|-----------------|---------------|---------------|------|------|
| 1 | PRATHYU  | 147             | 1152277       | yyy@gmail.com | 10   | 11   |
| 2 | USHA     | 148             | 1168899       | ppp@gmail.com | 12   | 13   |
| 3 | SUSHMA   | 145             | 1127890       | xuu@gmail.com | 9    | 7    |

